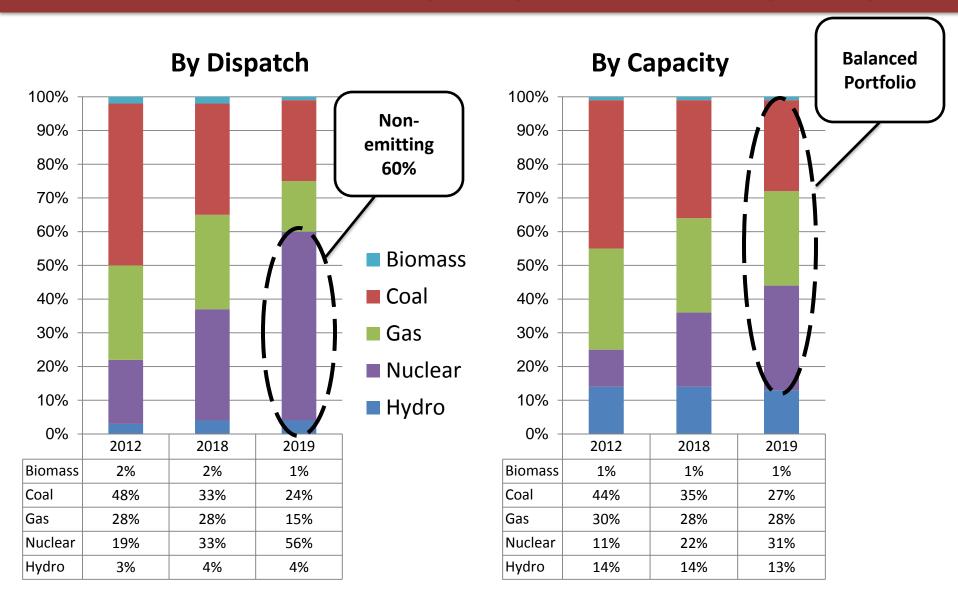




Nuclear Construction Update June 26, 2013

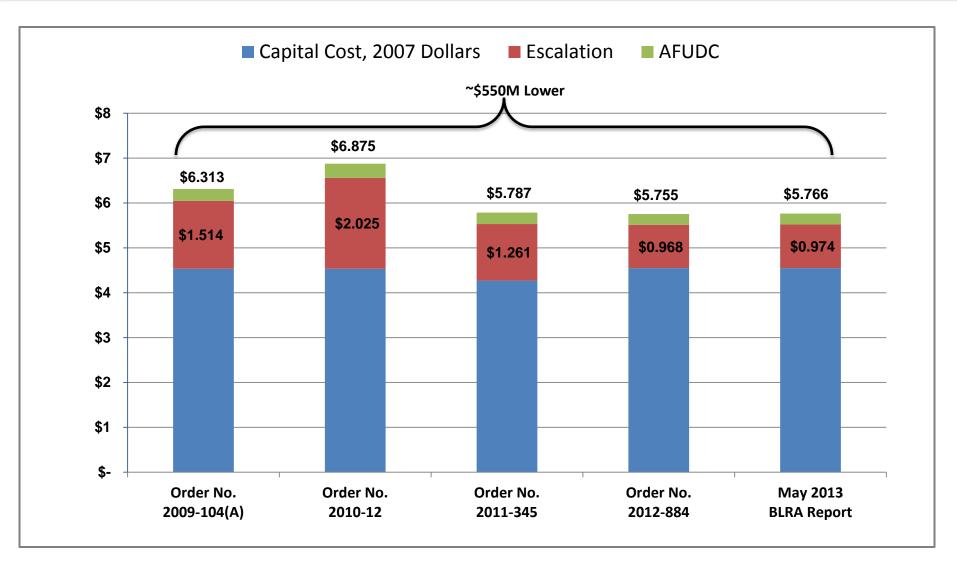
| Stephen A. Byrne – Chief Operating Officer | Jeffrey B. Archie – Chief Nuclear Officer

Generation Mix by Dispatch and Capacity





New Nuclear Projected Costs (in billions)



Note: Reflects new nuclear projected costs as filed May 2013 in BLRA Quarterly Report; SCE&G 55% share

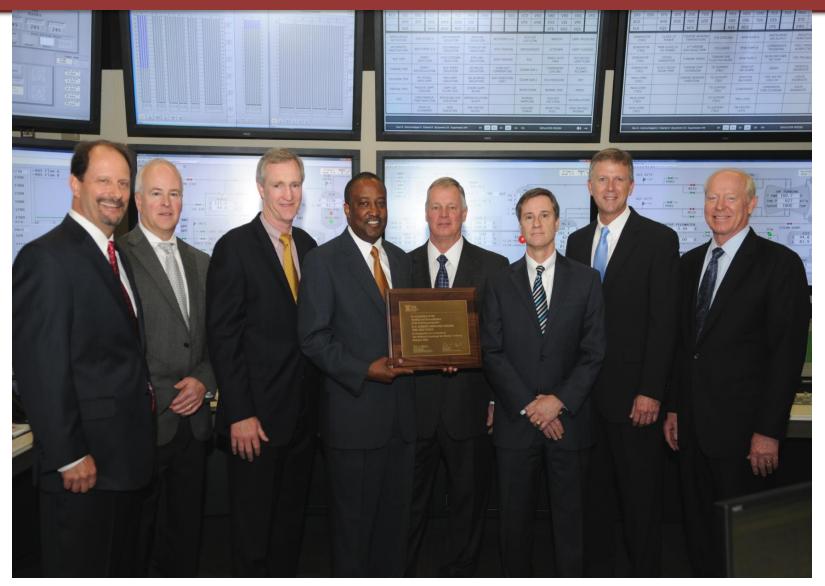


Total New Nuclear Staffing

| Group | Filled |
|-----------------------|-----------|
| Management | 4 |
| NND | 98 |
| Operational Readiness | 162 |
| Training | 50 |
| Unit 1 | 31 |
| SCANA IT | 7 |
| SCANA Insurance | 1 |
| SCANA – Financial | <u>11</u> |
| Total | 364 |



Operator Training Programs Accredited





Consortium Changes

- Westinghouse Project Lead passed away
 - Experienced person acting
 - Search underway for successor
- CB&I acquired Shaw Feb 2013
 - Initial exposure to new team positive

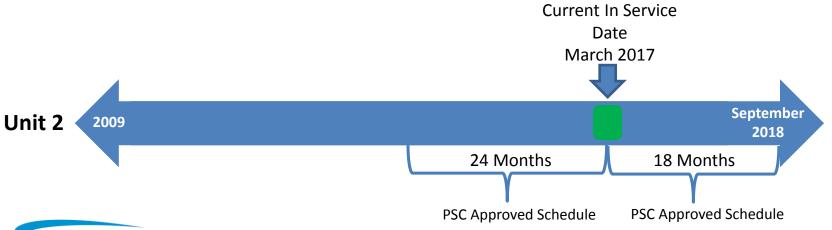






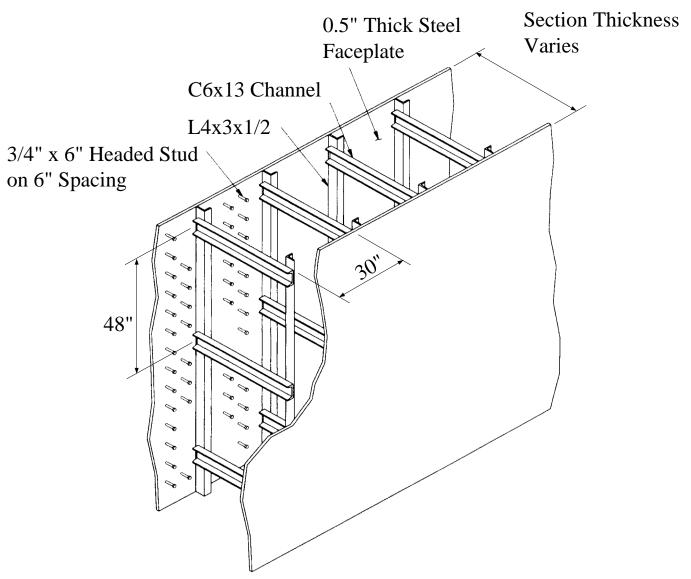
Unit 2 In Service

- SCANA requested CB&I leadership:
 - To review the impact of Lake Charles
 - Provide module delivery dates in which they had complete confidence
- The preliminary review indicates the in-service:
 - For Unit 2 likely ranges from Q4 2017 Q1 2018 (due to delay in submodules)
 - Unit 3 is expected to be similarly delayed
- While we do not have a specific date, we are confident this new range for Unit
 2 is within the 18-month PSC allowed construction contingency





What is a Module?





CB&I Lake Charles Facility





(formerly Shaw Modular Solutions - SMS)

Size: 410,000 sq. ft, 120 acres

Production Space: 7 bays - 500' long

Width: Ranges from 70' to 110'

Indoor Height: Ranges from 40' to 70' tall, with the ability to assemble structures up to 50' high indoors

Weight: Capacity in excess of 100 tons

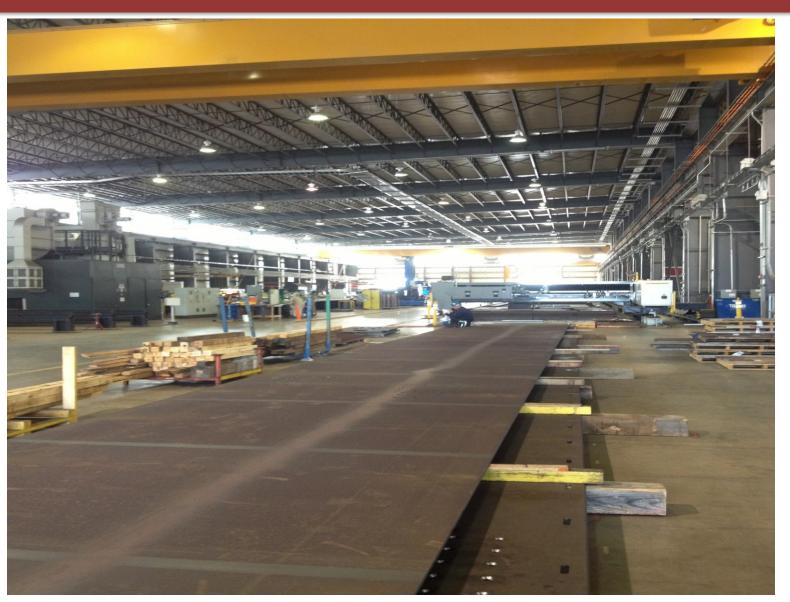
Storage: Indoor warehouse

Barge Access: 37' deep

Number of Employees: 800

























Post Module Receipt at VCS



A CA20 sub-module being received at the VCS site



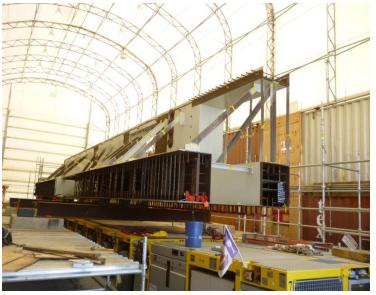
The sub-module is stored at the laydown area outside the MAB for initial inspection



Post Module Receipt at VCS



After inspection, the module is moved to the Cleaning Tent on site



In the Cleaning Tent, the sub-module is fitted with the latest revisions to the design and edges are prepared for welding



Post Module Receipt at VCS



Leaving the Cleaning Tent, the module is moved into the MAB for assembly with other CA20 sub-modules



This sub-module is being positioned inside the MAB for assembly with other CA20 sub-modules



Module Assembly Building





CA20 Being Assembled in MAB





CA20 Being Assembled in MAB





Assembled Modules at Sanmen Unit 1



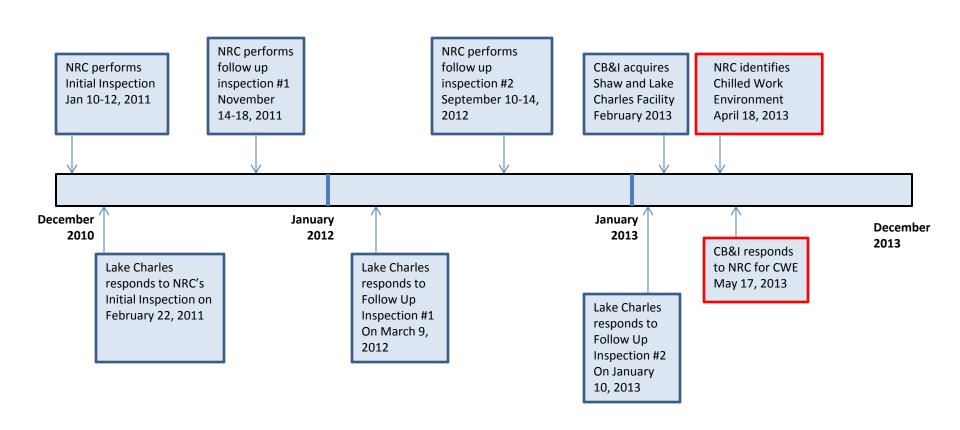


Challenges to Production

- NRC expectations not met
- Management turnover
 - senior leadership weaknesses within facility
- Nuclear safety culture
 - chilled work environment letter from NRC
 - corporate senior leadership team (Shaw) not effective



NRC Interaction Timeline





NRC January 2011 Inspection

NRC requested SMS to respond to the following:

 programmatic and technical challenges previously identified and how they will be addressed

Date SMS plans to be in full production of modules

Expected date of first shipment of modules



SMS Response to NRC

 SMS communicated to NRC areas identified as challenges since initiation of fabrication in May 2010

Commonality of issues was noted

 Issues noted considered feedback from Shaw Nuclear, SCANA and Southern



SMS Response to NRC

 SMS communicated to NRC an expectation to be in a high level of production of structural modules by June 2011

 SMS expected to ship the first structural submodule the end of June 2011



CB&I Acquisition of Shaw

Acquisition date: February 2013

A number of senior leaders not retained

 Changed name from Shaw Modular Solutions (SMS)to CB&I Lake Charles



CB&I Senior Management Commitment

- Committed to addressing Lake Charles issues
- Committed to better alignment of project site team and Lake Charles
- Monitoring leadership / performance in Lake Charles
- Outscoping of work to other fab shops and to the project site
- Will take some time to effect sustainable change



SCE&G Insights

 SCE&G impression of new CB&I management team has so far been favorable

We continue to monitor adherence to production goals

Recent sub module delivery commitments have been met



Activities at the Site

- World's largest derrick (crane) in use
- Training on simulators
- Placed CV lower bowl
- Welding U2 CV rings
- Switchyard energized
- Receiving CA-20 submodules
- Erecting cooling towers
- Assembling condensers
- Placed U3 mudmats and vapor barrier
- Poured U2 nuclear island and turbine building basemat

- Completed U2 turbine building lower level walls
- Placed U2 CR-10 module on nuclear island basemat
- Placed U2 CV bottom head
- Erecting U3 Basemat rebar cage





VCS 2 & 3 Aerial View



Unit 2 Nuclear Island (Pre 1st Nuclear Concrete Pour)









Unit 2 Nuclear Island (1st Nuclear Concrete Pour)









Video #1

SCE&G Completes First Nuclear Concrete Placement

March 2013: Timelapse of 51.5 hrs of work (1:47)

Placement of Unit 2 Module CR-10









Video #2

SCE&G Lifts CR-10 Component April 2013 Timelapse (:16)

Unit 2 Nuclear Island



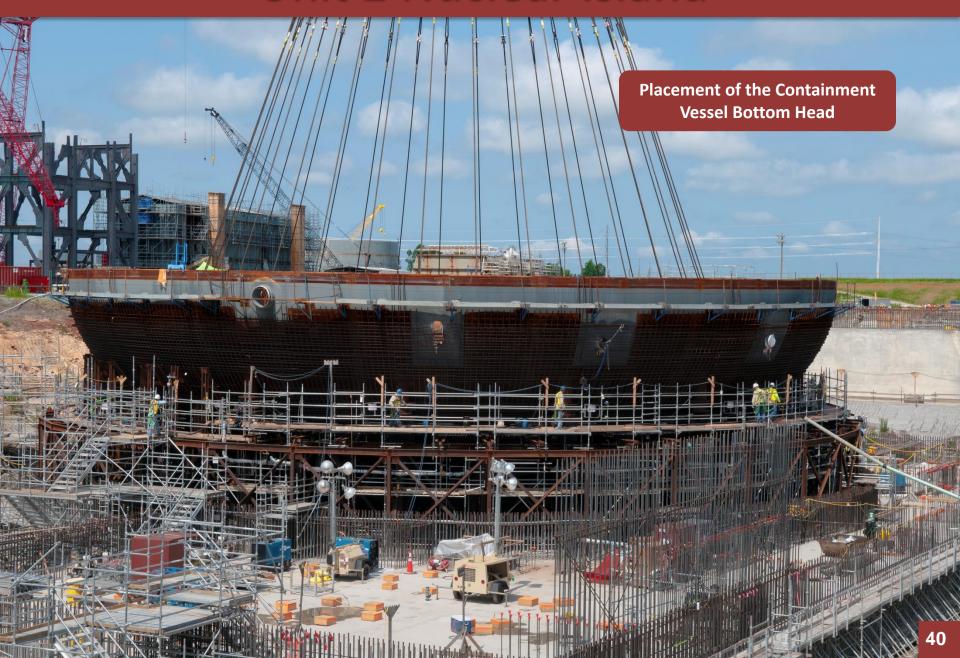
Transport of CV Bottom Head



Video #3

SCE&G Lifts CVBH Component May 2013 Timelapse (:16)

Unit 2 Nuclear Island



Sanmen Unit 1 in China



Containment Vessel

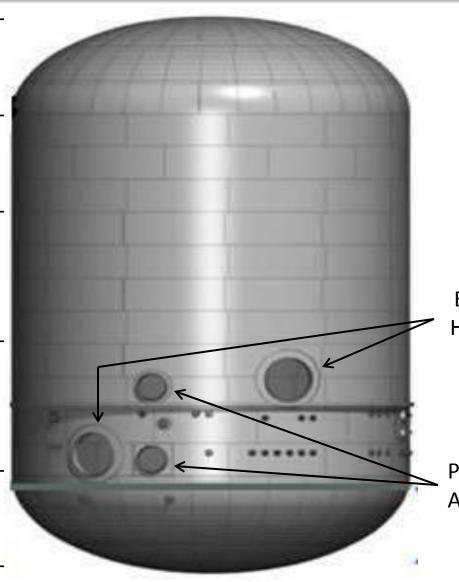
Top Head

Ring 3

Ring 2

Ring 1

Bottom Head



Equipment Hatches (2)

Personnel Airlocks (2)



Unit 2 Containment Vessel Fabrication







Unit 3 Nuclear Island



Unit 2 Turbine Building





Unit 2 Condenser Lower Shells



Unit 2 Condenser Upper Shells



Unit 2 Cooling Tower



Cooling Tower 2A
South Side

Mechanical & Shroud
Installation





Switchyard







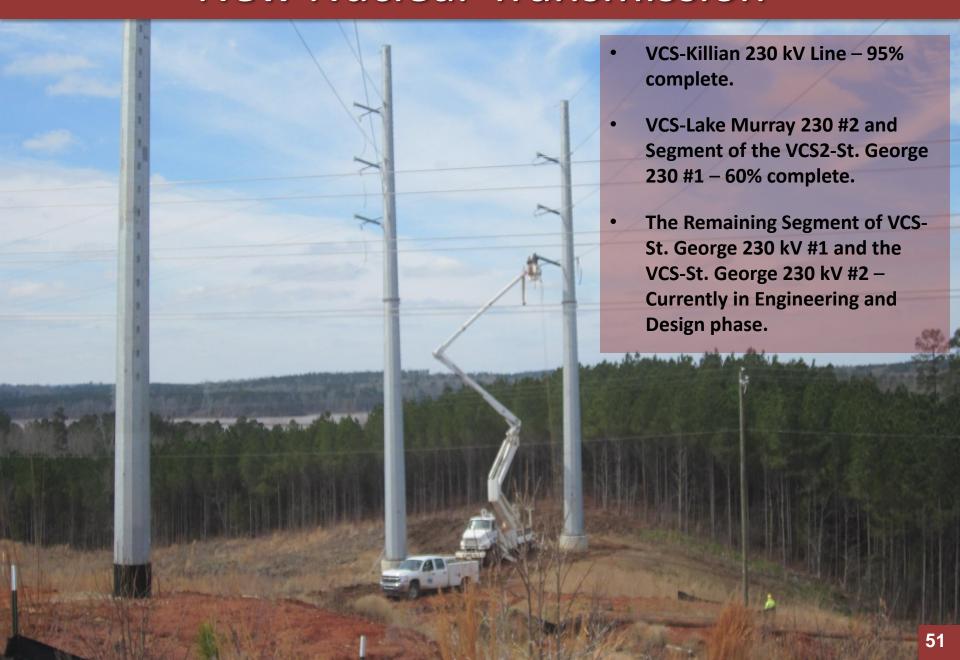
- Completed during 4th quarter of 2012
- Energized and tested during January of 2013



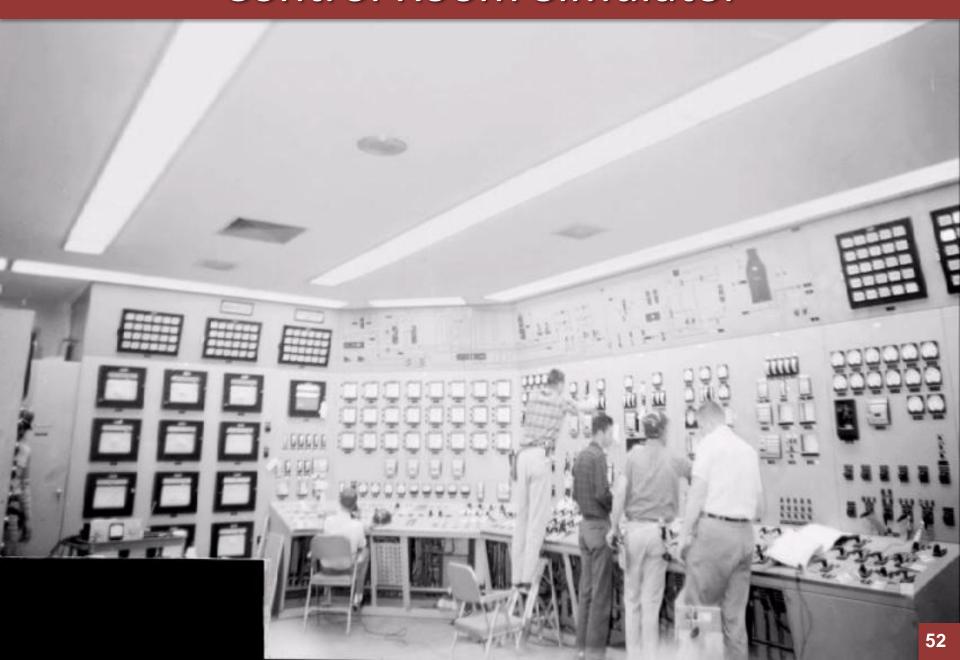
New Nuclear Transmission



New Nuclear Transmission



Control Room Simulator



Control Room Simulator



Control Room Simulator



Premier Technologies - Idaho

U2 Integrated Head Package Fit-up



Integrated Head Package Lift Rig

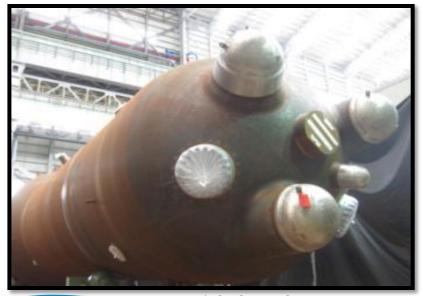




Doosan Manufacturing



Unit 2 Reactor Vessel Shipment



Unit 2A Steam Generator



Unit 2 Closure Head Shipment



Unit 2B Steam Generator

Reactor Vessel at Port of Charleston







Mangiarotti Manufacturing



Unit 2 Core Makeup Tank



Unit 2 Accumulator Tank



Unit 3 PRHR Frame



Unit 2 PRHR

Main Step-up Transformer





Toshiba, Keihin - Japan



Generator Rotor



Low Pressure "A" Turbine



Low Pressure "B" Turbine

- Prep for Blade Assembly



Deaerator Delivery



140 ft Long18 ft Diameter300 tons





Deaerator Transport – through Town of Bishopville



Links to Referenced Materials:

- Base Load Review Act: http://www.scstatehouse.gov/sess117 2007-2008/bills/431.htm
- Commission Order No. 2009-104(A): http://dms.psc.sc.gov/pdf/orders/5E3440FB-FC31-8115-18C5057D060BF8EF.pdf
- Commission Order No. 2010-12: http://dms.psc.sc.gov/pdf/orders/6600E655-DB88-C849-33F254D73DE0232A.pdf
- Commission Order No. 2011-345: http://dms.psc.sc.gov/pdf/orders/FA669ED4-A4F3-6D8E-C2A260E22A92AFE5.pdf
- Commission Order No. 2012-884: http://dms.psc.sc.gov/pdf/orders/3BA3336C-155D-141F-1D7ADCA5C17C637A.pdf
- Public Version of SCE&G's Quarterly Report for period ending Mar. 31, 2013 (filed May 13, 2013): http://dms.psc.sc.gov/pdf/matters/3480DE86-155D-141F-1DBDC88E1282E716.pdf
- Letter from NRC to Shaw Modular Systems (SMS) re: January 2011 inspection, dated Jan. 24, 2011: http://pbadupws.nrc.gov/docs/ML1101/ML110190676.pdf
- Response from SMS to NRC re: January 2011 inspection, dated Feb. 11, 2011: http://pbadupws.nrc.gov/docs/ML1105/ML110550458.pdf
- Letter from NRC to CB&I re: Chilled Work Environment, dated Apr. 18, 2013: http://pbadupws.nrc.gov/docs/ML1309/ML13092A077.pdf
- Response from CB&I to NRC re: Chilled Work Environment, dated May 17, 2013: http://pbadupws.nrc.gov/docs/ML1314/ML13149A351.pdf



Questions

